

Shriya Construction and Consultancy

1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town, Bangalore - 560 064.

NO: BBMP/YD/KOND/WMM Grad

Date: 14-06-2021

TEST REPORT ON WET MIX MACADAM MIX (GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.

Name of Work: Construction of Rain water lead of drain at Kondappa layout 19th to 28th cross in Choudeshwari ward.No.2

Ref: Material Testing/PMC/21-22

Report submitted to: Assistant Executive Engineer, Yelahanka Sub Division, BBMP Bangalore.

Name of Agency/ contractor: Sri. Gopi Reddy.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	97.15	95-100
26.50	---	-
22.40	79.26	60-80
11.20	53.41	40-60
4.75	36.16	25-40
2.36	24.61	15-30
0.600	19.32	8-22
0.075	3.82	0-5

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Signature



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Name of Agency/ contractor: Sri. Gopi Reddy.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	94.36	95-100
26.50	---	-
22.40	74.14	60-80
11.20	52.15	40-60
4.75	36.40	25-40
2.36	26.71	15-30
0.600	18.04	8-22
0.075	3.43	0-5



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1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town, Bangalore - 560 064.

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)- 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.O.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	27.50%	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	28.60 %	Not more than 35.0 %
3.	Water absorption, %	0.41 %	Not more than 2.0 %
4.	Plasticity Index, %	NP	Not more than 6.0 %

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AE-22



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1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town, Bangalore - 560 064.

NO: YEL-P/PMC/KOND / Course Agg

Date: 22/05/2021

TEST REPORT ON COURSE AGGREGATES (GRADATION TEST)

Sub: To conduct tests on Course Aggregates (Grade-V) mix.

Name of Work: Construction of Rain water lead of drain at Kondappa layout 19th to 28th cross in Choudeshwari ward.No.2

Ref: Material Testing/PMC/21-22

Report submitted to: Assistant Executive Engineer, Yelahanka Sub Division, BBMP Bangalore.

Name of Agency/ contractor: Sri. Gopi Reddy.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision- 2013
53.00	100.00	100
45.00	97.15	95-100
26.50	---	-
22.40	79.25	60-80
11.20	53.40	40-60
4.75	36.15	25-40
2.36	24.60	15-30
0.600	19.35	8-22
0.075	3.85	0-5

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1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town, Bangalore - 560 064.

NO: YEL-P/PMC/KOND / Course Agg

Date: 10/05/2021

TEST REPORT ON COURSE AGGREGATES (GRADATION TEST)

Sub: To conduct tests on Course Aggregates (Grade-V) mix.

Name of Work: Construction of Rain water lead of drain at Kondappa layout 19th to 28th cross in Choudeshwari ward.No.2

Ref: Material Testing/PMC/21-22

Report submitted to: Assistant Executive Engineer, Yelahanka Sub Division, BBMP Bangalore.

Name of Agency/ contractor: Sri. Gopi Reddy.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision- 2013
53.00	100.00	100
45.00	94.35	95-100
26.50	---	-
22.40	74.15	60-80
11.20	52.10	40-60
4.75	36.45	25-40
2.36	26.70	15-30
0.600	18.05	8-22
0.075	3.45	0-5

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1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town, Bangalore - 560 064.

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)-1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	27.54%	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	28.65 %	Not more than 35.0 %
3.	Water absorption, %	0.42 %	Not more than 2.0 %
4.	Plasticity Index, %	NP	Not more than 6.0 %

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1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town, Bangalore - 560 064.

NO: YEL- D/PMC/KOND/CEM

Date: 14/06/2021

1. Test report on Cement:

Sub: Testing of 53 Grade Cement Sample Pertaining to IS: 12269-1987

Name of Work: Construction of Rain water lead of drain at Kondappa layout 19th to 28th cross in Choudeshwari ward.No.2

Ref: Material Testing/PMC/21-22

Report submitted to: Assistant Executive Engineer, Yelahanka Sub Division, BBMP Bangalore.

Name of Agency/ contractor: Sri. Gopi Reddy.

PHYSICAL TESTS ON CEMENT

Grade Of Cement: 53, OPC

Table 1.1

SL No	Name of Tests	Result	As Per IS Requirements (IS 8112-1989)
1.	Initial Setting Time	168 Min	Shall Not be less than 30 Min
2.	Final Setting Time	275 Min	Shall Not be More than 600 Min
3.	Fineness (by dry sieve on IS 90 micron Sieve)	1.98 %	Not to Exceed 10.0 %
4.	Soundness Test by Lee-Chatelier's Method	2.15 mm	Shall not be more than 10 mm
5.	Compressive strength (3 days on average of 3 results	29.56 N/Sqmm	Shall not be less than 27 N /Sq mm

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1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town, Bangalore - 560 064.

NO: YEL- D/PMC/KOND/SAND

Date: 19/06/2021

1. Test report on Fine Aggregates:

Sub: Testing of Fine Aggregates Sample Pertaining to IS: 383-1970 (Reaffirmed 2002).

Name of Work: Construction of Rain water lead of drain at Kondappa layout 19th to 28th cross in Choudeshwari ward.No.2

Ref: Material Testing/PMC/21-22

Report submitted to: Assistant Executive Engineer, Yelahanka Sub Division, BBMP Bangalore.

Name of Agency/ contractor: Sri. Gopi Reddy.

SIEVE ANALYSIS

Table 1.1

IS Sieve Size, mm	% Passing	IS: 383-1970 (Reaffirmed 2002). Percentage Passing			Result/ Remarks
		Zone I	Zone II	Zone III	
4.75mm	95.35	90-100	90-100	90-100	The Sample Conforms Grade II
2.36mm	82.65	60-95	75-100	85-100	
1.18 mm	86.25	30-70	55-90	75-100	
600 micr.	48.90	15.34	35-59	60-79	
300 mic.	23.40	5-20	8-30	12-40	
150 mic.	8.10	0-10	0-10	0-10	

SL No	Name of Tests	Sample	Result	Requirements as per IS: 383-1970 (Reaffirmed 2002).
1.	Bulking Of Sand	01	17.89%	NA
2.	Silt Content	-	.62%	Not more than 8%
3.	Specific Gravity	-	2.69	--



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Shriya Construction and Consultancy

1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town, Bangalore - 560 064.

RESULTS OF PHYSICAL PROPERTIES OF TMT STEEL

SPECIMENS 8,10 AND 12MM DIA

Date of Testing : 11/05/2021

Grade Of Steel: Fe 500.

Technical Ref: IS.1786:2008, IS 1608:2005, IS 1599:1985(Reaffined-2006).

Table

SL No	Grade	Nominal Size of Rebar (Dia)	Mass (KG/meter)	Tensile Strength		
				20% Proof Stress / Yield Stress (N/mm ²)	Tensile Strength (N/mm ²)	Elongation Percent on gauge Length
1.	Fe 500	8 mm	.33	545	550	13.60
2.	Fe 500	10mm	.65	557	573	14.56
3.	Fe 500	12mm	.84	572	581	14.90

Name of Work: Construction of Rain water lead of drain at Kondappa layout 19th to 28th cross in Choudeshwari ward.No.2

Ref: Material Testing/PMC/21-22

Report submitted to: Assistant Executive Engineer, Yelahanka Sub Division, BBMP Bangalore.

Name of Agency/ contractor: Sri. Gopi Reddy.



AE-02

Shriya Construction and Consultancy

1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town, Bangalore - 560 064.

NO: YEL/PMC/KOND/Cul.Slab

Date: 02/07/2021

Precast Culvert Slab 250mm Thick (Core Cutting Method) Test Report

Name of Work: Construction of Rain water lead of drain at Kondappa layout 19th to 28th cross in Choudeshwari ward.No.2

Ref: Material Testing/PMC/21-22

Report submitted to: Assistant Executive Engineer, Yelahanka Sub Division, BBMP Bangalore.

Name of Agency/ contractor: Sri. Gopi Reddy.

RESULTS OF COMPRESSIVE STRENGTH OF CONCRETE CORE

CORE SPECIMENS

Grade Of concrete: M20

Technical Ref: IS.516-1959 (Reaffirmed), Sp 24-1983.

Table 1.1

Dia of Specimens: 100 mm =D

SL No	Height of core (H)mm	Weight of Core (KG)	Density of core (KG/m ³)	H/D	Correction factor of H/D	Load KN	Compressive Strength N/mm ²	Correction Factor for dia (Strength x1.08)	Corrected Compressive Strength	Equivalent Cube Compressive Strength
1.	170	3.118	2335.2	1.70	.960	142.5	18.14	19.60	18.81	23.4
2.	173	3.231	2377.9	1.73	.960	138.6	17.65	19.06	18.30	22.2
3.	173	3.291	2394.4	1.75	.960	140.3	17.86	19.29	18.52	23.1



AE-02

Shriya Construction and Consultancy

1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town, Bangalore - 560 064.

NO: YEL-P/PMC/KOND/ M30 Road

Date: 29/07/2021

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days - Compressive Strength)

Name of Work: Construction of Rain water lead of drain at Kondappa layout 19th to 28th cross in Choudeshwari ward.No.2

Ref: Material Testing/PMC/21-22

Report submitted to: Assistant Executive Engineer, Yelahanka Sub Division, BBMP Bangalore.

Name of Agency/ contractor: Sri. Gopi Reddy.

RESULTS OF COMPRESSIVE STRENGTH OF CONCRETE CUBES

CUBE SPECIMENS

Dimensions of Specimens: 150x150x150mm

Grade Of concrete: M30

Table 1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	Compressive Strength N/mm ²	Average Strength N/mm ²
1	Location: End Roads- 1,2 & 3	01-07-2021	29-07-2021	8.65	28	705.00	31.33	33.74
2	And	"	"	8.42	"	736.00	32.71	
3	Temple	"	"	8.63	"	800.00	35.56	
4	Road	"	"	8.24	"	767.00	34.09	
5	Kondappa	"	"	8.25	"	784.00	34.84	
6	Layout, YNK W-02	"	"	8.54	"	763.00	33.91	

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AE-02

Shriya Construction and Consultancy

1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town, Bangalore - 560 064.

NO: YEL-P/PMC/KOND/ M30 Road

Date: 09/07/2021

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days - Compressive Strength)

Name of Work: Construction of Rain water lead of drain at Kondappa layout 19th to 28th cross in Choudeshwari ward.No.2

Ref: Material Testing/PMC/21-22

Report submitted to: Assistant Executive Engineer, Yelahanka Sub Division, BBMP Bangalore.

Name of Agency/ contractor: Sri. Gopi Reddy.

RESULTS OF COMPRESSIVE STRENGTH OF CONCRETE CUBES

CUBE SPECIMENS

Dimensions of Specimens: 150x150x150mm

Grade Of concrete: M30

Table 1.1

SI No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	Compressive Strength N/mm ²	Average Strength N/mm ²
1	23rd, 24th and 25th C/S Road, Kondappa L/o YNK W. 02	02-07-2021	09-07-2021	8.55	7	400.00	17.78	20.48
2		"	"	4.52	"	456.00	20.27	
3		"	"	8.49	"	474.00	21.07	
4		"	"	8.57	"	485.00	21.56	
5		"	"	8.24	"	469.00	20.84	
6		"	"	8.63	"	481.00	21.38	

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AE-02

Shriya Construction and Consultancy

1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town, Bangalore - 560 064.

NO: YEL/PMC/KOND/Raft

Date: 22/05/2021

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days - Compressive Strength)

Name of Work: Construction of Rain water lead of drain at Kondappa layout 19th to 28th cross in Choudeshwari ward.No.2

Ref: Material Testing/PMC/21-22

Report submitted to: Assistant Executive Engineer, Yelahanka Sub Division, BBMP Bangalore.

Name of Agency/ contractor: Sri. Gopi Reddy.

RESULTS OF COMPRESSIVE STRENGTH OF CONCRETE CUBES CUBE SPECIMENS

Dimensions of Specimens: 150x150x150mm

Grade Of concrete: M20

Table 1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	Compressive Strength N/mm ²	Average Strength N/mm ²
1	Location: Temple, Approach and End Roads, Kondappa L/O YNK, W 02	15-05-2021	22-05-2021	8.41	7	364.00	16.18	17.01
2		"	"	8.20	"	395.00	17.56	
3		"	"	8.36	"	376.00	16.71	
4		"	"	8.32	"	395.00	17.56	
5		"	"	8.55	"	386.00	17.16	
6		"	"	8.35	"	380.00	16.89	

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AE-02



Shriya Construction and Consultancy

1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town, Bangalore - 560 064.

NO: YEL/PMC/KOND/Side Walls

Date: 14/06/2021

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days - Compressive Strength)

Name of Work: Construction of Rain water lead of drain at Kondappa layout 19th to 28th cross in Choudeshwari ward.No.2

Ref: Material Testing/PMC/21-22

Report submitted to: Assistant Executive Engineer, Yelahanka Sub Division, BBMP Bangalore.

Name of Agency/ contractor: Sri. Gopi Reddy.

RESULTS OF COMPRESSIVE STRENGTH OF CONCRETE CUBES

CUBE SPECIMENS

Dimensions of Specimens: 150x150x150mm

Grade Of concrete: M20

Table 1.1

SI No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	Compressive Strength N/mm ²	Average Strength N/mm ²
1	Location: Temple, Approach and End Roads, Kondappa L/O YNK, W 02	17-05-2021	14-06-2021	8.36	28	468.00	20.80	21.64
2		"	"	8.46	"	483.00	21.47	
3		"	"	8.55	"	497.00	22.09	
4		"	"	8.34	"	469.00	20.84	
5		"	"	8.12	"	500.00	22.22	
6		"	"	8.05	"	505.00	22.44	



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Per AE-02